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| | | | |
|------|----|--------|--|
| NEWS | 1 | | Web Page for STN Seminar Schedule - N. America |
| NEWS | 2 | JAN 02 | STN pricing information for 2008 now available |
| NEWS | 3 | JAN 16 | CAS patent coverage enhanced to include exemplified prophetic substances |
| NEWS | 4 | JAN 28 | USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats |
| NEWS | 5 | JAN 28 | MARPAT searching enhanced |
| NEWS | 6 | JAN 28 | USGENE now provides USPTO sequence data within 3 days of publication |
| NEWS | 7 | JAN 28 | TOXCENTER enhanced with reloaded MEDLINE segment |
| NEWS | 8 | JAN 28 | MEDLINE and LMEDLINE reloaded with enhancements |
| NEWS | 9 | FEB 08 | STN Express, Version 8.3, now available |
| NEWS | 10 | FEB 20 | PCI now available as a replacement to DPCI |
| NEWS | 11 | FEB 25 | IFIREF reloaded with enhancements |
| NEWS | 12 | FEB 25 | IMSPRODUCT reloaded with enhancements |
| NEWS | 13 | FEB 29 | WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification |
| NEWS | 14 | MAR 31 | IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats |
| NEWS | 15 | MAR 31 | CAS REGISTRY enhanced with additional experimental spectra |
| NEWS | 16 | MAR 31 | CA/CAPplus and CASREACT patent number format for U.S. applications updated |
| NEWS | 17 | MAR 31 | LPCI now available as a replacement to LDPCI |
| NEWS | 18 | MAR 31 | EMBASE, EMBAL, and LEMBASE reloaded with enhancements |
| NEWS | 19 | APR 04 | STN AnaVist, Version 1, to be discontinued |
| NEWS | 20 | APR 15 | WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats |
| NEWS | 21 | APR 28 | EMBASE Controlled Term thesaurus enhanced |
| NEWS | 22 | APR 28 | IMSRESEARCH reloaded with enhancements |
| NEWS | 23 | MAY 30 | INPAFAMDB now available on STN for patent family searching |
| NEWS | 24 | MAY 30 | DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option |
| NEWS | 25 | JUN 06 | EPFULL enhanced with 260,000 English abstracts |
| NEWS | 26 | JUN 06 | KOREAPAT updated with 41,000 documents |
| NEWS | 27 | JUN 13 | USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications |
| NEWS | 28 | JUN 19 | CAS REGISTRY includes selected substances from web-based collections |
| NEWS | 29 | JUN 25 | CA/CAPplus and USPAT databases updated with IPC reclassification data |
| NEWS | 30 | JUN 30 | AEROSPACE enhanced with more than 1 million U.S. patent records |
| NEWS | 31 | JUN 30 | EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations |
| NEWS | 32 | JUN 30 | STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in |

NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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NEWS IPC8 For general information regarding STN implementation of IPC 8

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 18:26:56 ON 22 JUL 2008

=> file caplus uspatfull japio medline biosis embase scisearch eptfull
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.42 0.42

FILE 'CAPLUS' ENTERED AT 18:28:21 ON 22 JUL 2008
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FILE 'USPATFULL' ENTERED AT 18:28:21 ON 22 JUL 2008
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FILE 'EPFULL' ENTERED AT 18:28:21 ON 22 JUL 2008
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=> s implant? and (drug delivery)
1 FILES SEARCHED...
L1 49048 IMPLANT? AND (DRUG DELIVERY)

=> s l1 and (molecular weight cutoff)
L2 508 L1 AND (MOLECULAR WEIGHT CUTOFF)

=> s l2 and tether
L3 42 L2 AND TETHER

=> s l3 and (radioopaque)
L4 0 L3 AND (RADIOOPAQUE)

=> s 13 and (radio opaque)
L5 5 L3 AND (RADIO OPAQUE)

=> d 15 1-5 ibib abs

L5 ANSWER 1 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2006:174525 USPATFULL
TITLE: Polynucleotide encoding a novel human serpin secreted
from lymphoid cells, LSI-01
INVENTOR(S): Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nelson, Thomas, Lawrenceville, NJ, UNITED STATES
Seiler, Steven, Pennington, NJ, UNITED STATES
Bassolino, Donna A, Hamilton, NJ, UNITED STATES
Cheney, Daniel L., Flemington, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 20060147973 | A1 | 20060706 |
| | US 7256267 | B2 | 20070814 |
| APPLICATION INFO.: | US 2006-329900 | A1 | 20060111 (11) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2001-993180, filed on 14 Nov 2001, PENDING | | |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-248434P | 20001114 (60) |
| | US 2000-257610P | 20001221 (60) |
| | US 2001-282745P | 20010410 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: LOUIS J. WILLE, BRISTOL-MYERS SQUIBB COMPANY, PATENT
DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1-52
NUMBER OF DRAWINGS: 8 Drawing Page(s)
LINE COUNT: 18514

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding LSI-01 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel LSI-01 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2006:15798 USPATFULL
TITLE: Human phosphatase RET31, and variants thereof
INVENTOR(S): Jackson, Donald G., Lawrenceville, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Mintier, Gabe, Hightstown, NJ, UNITED STATES
Lee, Liana, North Brunswick, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Siemers, Nathan, Pennington, NJ, UNITED STATES
Bol, David, Langhorne, PA, UNITED STATES
Suchard, Suzanne, Wilmington, DE, UNITED STATES
Schieven, Gary, Lawrenceville, NJ, UNITED STATES

Finger, Joshua, San Marcos, CA, UNITED STATES
Todderud, C. Gordon, Newtown, PA, UNITED STATES
Bassolino, Donna, Hamilton, NJ, UNITED STATES
Krystek, Stanley, Ringoes, NJ, UNITED STATES
Banas, Dana, Hamilton, NJ, UNITED STATES
McAtee, Patrick, Pennington, NJ, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|---|------|---------------|
| PATENT INFORMATION: | US 20060014180 | A1 | 20060119 |
| | US 7358074 | B2 | 20080415 |
| APPLICATION INFO.: | US 2005-143984 | A1 | 20050602 (11) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 2001-29345, filed on 20 Dec 2001, PENDING | | |

| | NUMBER | DATE |
|--|--|---------------|
| PRIORITY INFORMATION: | US 2000-256868P | 20001220 (60) |
| | US 2001-280186P | 20010330 (60) |
| | US 2001-287735P | 20010501 (60) |
| | US 2001-295848P | 20010605 (60) |
| | US 2001-300465P | 20010625 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US | |
| NUMBER OF CLAIMS: | 17 | |
| EXEMPLARY CLAIM: | 1-25 | |
| NUMBER OF DRAWINGS: | 67 Drawing Page(s) | |
| LINE COUNT: | 29165 | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | |

AB The present invention provides novel polynucleotides encoding human phosphatase polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel human phosphatase polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly cardiovascular diseases and/or disorders. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2005:152469 USPATFULL
TITLE: Method and device for minimally invasive implantation of biomaterial
INVENTOR(S): Freeman, Lynetta Jean, West Chester, OH, UNITED STATES
DiFrancesco, Mark W., Loveland, OH, UNITED STATES

| | NUMBER | KIND | DATE |
|--|--|------|---------------|
| PATENT INFORMATION: | US 20050131386 | A1 | 20050616 |
| APPLICATION INFO.: | US 2003-736421 | A1 | 20031215 (10) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | FROST BROWN TODD, LLC, 2200 PNC CENTER, 201 E. FIFTH STREET, CINCINNATI, OH, 45202, US | | |
| NUMBER OF CLAIMS: | 60 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 11 Drawing Page(s) | | |
| LINE COUNT: | 2319 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |

AB A minimally invasive method of placing a delivery device substantially adjacent to vascular tissue and a device for use with such a method are disclosed. The delivery device may be a flexible biological construct with a flexible tethering means. The delivery device may be percutaneously inserted near vascular tissue such as, for example, peritoneal tissue. When the delivery device has been inserted, the tether may be used to pull the delivery device toward the vascular tissue and secure the device thereto. Contact between the front surface of the delivery device and the vascular tissue may be maintained by making and keeping the tether substantially taut. The delivery device may serve accomplish sustained delivery of active agents.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2005:151374 USPATFULL
TITLE: POLYNUCLEOTIDES ENCODING NOVEL HUMAN PHOSPHATASES
INVENTOR(S): Jackson, Donald G., Lawrenceville, NJ, UNITED STATES
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Mintier, Gabe, Hightstown, NJ, UNITED STATES
Lee, Liana, North Brunswick, NJ, UNITED STATES
Nelson, Thomas C., Lawrenceville, NJ, UNITED STATES
Siemers, Nathan, Pennington, NJ, UNITED STATES
Bol, David, Langhorne, PA, UNITED STATES
Suchard, Suzanne, Wilmington, DE, UNITED STATES
Schieven, Gary, Lawrenceville, NJ, UNITED STATES
Finger, Joshua, San Marcos, CA, UNITED STATES
Todderrud, C. Gordon, Newtown, PA, UNITED STATES
Bassolino, Donna, Hamilton, NJ, UNITED STATES
Krystek, Stanley, Ringoes, NJ, UNITED STATES
Banas, Dana, Hamilton, NJ, UNITED STATES
McAtee, Patrick, Pennigton, NJ, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|---------------|
| PATENT INFORMATION: | US 20050130286 | A1 | 20050616 |
| | US 7153678 | B2 | 20061226 |
| APPLICATION INFO.: | US 2001-29345 | A1 | 20011220 (10) |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-256868P | 20001220 (60) |
| | US 2001-280186P | 20010330 (60) |
| | US 2001-287735P | 20010501 (60) |
| | US 2001-295848P | 20010605 (60) |
| | US 2001-300465P | 20010625 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000, US
NUMBER OF CLAIMS: 45
EXEMPLARY CLAIM: 1-25
NUMBER OF DRAWINGS: 67 Drawing Page(s)
LINE COUNT: 23559

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding human phosphatase polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel human phosphatase polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides, particularly cardiovascular diseases and/or disorders. The

invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2003:78525 USPATFULL

TITLE: Polynucleotide encoding a novel human serpin secreted from lymphoid cells, LSI-01

INVENTOR(S): Chen, Jian, Princeton, NJ, UNITED STATES
Feder, John N., Belle Mead, NJ, UNITED STATES
Nelson, Thomas, Lawrenceville, NJ, UNITED STATES
Seiler, Steven, Pennington, NJ, UNITED STATES
Bassolino, Donna A., Hamilton, NJ, UNITED STATES
Cheney, Daniel L., Flemington, NJ, UNITED STATES
Duclos, Franck, Washington Crossing, PA, UNITED STATES

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 20030054445 | A1 | 20030320 |
| | US 7247717 | B2 | 20070724 |
| APPLICATION INFO.: | US 2001-993180 | A1 | 20011114 (9) |

| | NUMBER | DATE |
|-----------------------|-----------------|---------------|
| PRIORITY INFORMATION: | US 2000-248434P | 20001114 (60) |
| | US 2000-257610P | 20001221 (60) |
| | US 2001-282745P | 20010410 (60) |

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000

NUMBER OF CLAIMS: 52

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Page(s)

LINE COUNT: 14427

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides novel polynucleotides encoding LSI-01 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel LSI-01 polypeptides to the diagnosis, treatment, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 18:26:56 ON 22 JUL 2008)

FILE 'CAPLUS, USPATFULL, JAPIO, MEDLINE, BIOSIS, EMBASE, SCISEARCH, EPFULL' ENTERED AT 18:28:21 ON 22 JUL 2008

L1 49048 S IMPLANT? AND (DRUG DELIVERY)
L2 508 S L1 AND (MOLECULAR WEIGHT CUTOFF)
L3 42 S L2 AND TETHER
L4 0 S L3 AND (RADIOOPAQUE)
L5 5 S L3 AND (RADIO OPAQUE)

=> s 13 and radiopaque

L6 12 L3 AND RADIOPAQUE

=> d 16 1-12 ibib abs

L6 ANSWER 1 OF 12 USPATFULL on STN

ACCESSION NUMBER: 2006:93609 USPATFULL
TITLE: Sensors for detecting substances indicative of stroke,
ischemia, or myocardial infarction
INVENTOR(S): Silver, James H., Palo Alto, CA, UNITED STATES
Mostowfi, Darius F., San Carlos, CA, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 20060079740 | A1 | 20060413 |
| APPLICATION INFO.: | US 2005-280680 | A1 | 20051116 (11) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 2004-758495, filed on 15 Jan 2004, PENDING Continuation-in-part of Ser. No. US 2002-217202, filed on 9 Aug 2002, GRANTED, Pat. No. US 7006858 Continuation-in-part of Ser. No. US 2001-41036, filed on 8 Nov 2001, PENDING Continuation-in-part of Ser. No. US 2000-571702, filed on 15 May 2000, GRANTED, Pat. No. US 6442413 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | APPLICATION | | |
| LEGAL REPRESENTATIVE: | KNOBBE MARTENS OLSON & BEAR LLP, 2040 MAIN STREET, FOURTEENTH FLOOR, IRVINE, CA, 92614, US | | |
| NUMBER OF CLAIMS: | 25 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 41 Drawing Page(s) | | |
| LINE COUNT: | 4388 | | |

AB A sensor is disclosed, for implantation within a blood vessel
to monitor a substance in or property of blood. In one embodiment, the
sensor detects nitric oxide or a nitric oxide metabolite. In another
embodiment, other substances such as glutamate, aspartate, arginine,
citrulline, acetylcholine, calcium, potassium, or dopamine are
monitored. The sensor may be attached to a support structure such as a
stent, guidewire, or catheter. In a further embodiment, a catheter is
disclosed that extracts patient fluid to a sensor outside the body for
monitoring a substance or property of the patient fluid. Methods are
also disclosed.

L6 ANSWER 2 OF 12 USPATFULL on STN

ACCESSION NUMBER: 2004:239278 USPATFULL
TITLE: Implantable biocompatible immunoisulatory
vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, UNITED STATES
Emerich, Dwaine F., Providence, RI, UNITED STATES
Hoffman, Diane, Cambridge, MA, UNITED STATES
Sanberg, Paul R., Spring Hill, FL, UNITED STATES
Christenson, Lisa, New Haven, CT, UNITED STATES
Hegre, Orion D., Green Valley, AZ, UNITED STATES
Scharp, David W., St. Louis, MO, UNITED STATES
Lacy, Paul E., Webster Grove, MO, UNITED STATES
Aebischer, Patrick, Lutry, SWITZERLAND
Vasconcellos, Alfred V., Cranston, RI, UNITED STATES
Lysaght, Michael J., E. Greenwich, RI, UNITED STATES
Gentile, Frank T., Warwick, RI, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 20040185083 | A1 | 20040923 |
| | US 6960351 | B2 | 20051101 |
| APPLICATION INFO.: | US 2003-624081 | A1 | 20030721 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2001-7344, filed on 25 Oct | | |

2001, ABANDONED Continuation of Ser. No. US
 2000-563248, filed on 2 May 2000, GRANTED, Pat. No. US
 6322804 Division of Ser. No. US 1998-148671, filed on 4
 Sep 1998, GRANTED, Pat. No. US 6083523 Division of Ser.
 No. US 1995-449837, filed on 24 May 1995, GRANTED, Pat.
 No. US 5874099 Division of Ser. No. US 1994-179151,
 filed on 10 Jan 1994, GRANTED, Pat. No. US 5800828
 Continuation-in-part of Ser. No. WO 1992-US3327, filed
 on 22 Apr 1992, PENDING Continuation-in-part of Ser.
 No. US 1991-692403, filed on 25 Apr 1991, ABANDONED
 Utility
 APPLICATION
 MINTZ, LEVIN, COHN, FERRIS, GLOVSKY, AND POPEO, P.C.,
 ONE FINANCIAL CENTER, BOSTON, MA, 02111

DOCUMENT TYPE:

FILE SEGMENT:

LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

LINE COUNT:

1
 1
 9 Drawing Page(s)
 3727

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An immunoisulatory vehicle for the implantation into an
 individual of cells which produce a needed product or provide a needed
 metabolic function. The vehicle is comprised of a core region containing
 isolated cells and materials sufficient to maintain the cells, and a
 permselective, biocompatible, peripheral region free of the isolated
 cells, which immunoisolates the core yet provides for the delivery of
 the secreted product or metabolic function to the individual. The
 vehicle is particularly well-suited to delivery of insulin from
 immunoisolated islets of Langerhans, and can also be used advantageously
 for delivery of high molecular weight products, such as products larger
 than IgG. A method of making a biocompatible, immunoisulatory
 implantable vehicle, consisting in a first embodiment of a
 coextrusion process, and in a second embodiment of a stepwise process. A
 method for isolating cells within a biocompatible, immunoisulatory
 implantable vehicle, which protects the isolated cells from
 attack by the immune system of an individual in whom the vehicle is
 implanted. A method of providing a needed biological product or
 metabolic function to an individual, comprising implanting
 into the individual an immunoisulatory vehicle containing isolated cells
 which produce the product or provide the metabolic function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 12 USPATFULL on STN

ACCESSION NUMBER:

TITLE:

INVENTOR(S):

2002:272488 USPATFULL
 Implantable biocompatible immunoisulatory
 vehicle for delivery of selected therapeutic products
 Dionne, Keith E., Rehoboth, MA, UNITED STATES
 Emerich, Dwaine F., Providence, RI, UNITED STATES
 Hoffman, Diane, Cambridge, MA, UNITED STATES
 Sanberg, Paul R., Spring Hill, FL, UNITED STATES
 Christenson, Lisa, New Haven, CT, UNITED STATES
 Hegre, Orion D., Green Valley, AZ, UNITED STATES
 Scharp, David W., St. Louis, MO, UNITED STATES
 Lacy, Paul E., Webster Grove, MO, UNITED STATES
 Aebischer, Patrick, Lutry, SWITZERLAND
 Vasconcellos, Alfred V., Cranston, RI, UNITED STATES
 Lysaght, Michael J., E. Greenwich, RI, UNITED STATES
 Gentile, Frank T., Warwick, RI, UNITED STATES

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 20020150603 | A1 | 20021017 |
| APPLICATION INFO.: | US 2001-7344 | A1 | 20011025 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2000-563248, filed on 2 May 2000, GRANTED, Pat. No. US 6322804 Division of Ser. No. | | |

US 1998-148671, filed on 4 Sep 1998, GRANTED, Pat. No. US 6083523 Division of Ser. No. US 1995-449837, filed on 24 May 1995, GRANTED, Pat. No. US 5874099 Division of Ser. No. US 1994-179151, filed on 10 Jan 1994, GRANTED, Pat. No. US 5800828 Continuation-in-part of Ser. No. WO 1992-US3327, filed on 22 Apr 1992, UNKNOWN Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, ABANDONED

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MINTZ LEVIN, One Financial Center, Boston, MA, 02111
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 3733
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An immunoisulatory vehicle for the implantation into an individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual. The vehicle is particularly well-suited to delivery of insulin from immunoisolated islets of Langerhans, and can also be used advantageously for delivery of high molecular weight products, such as products larger than IgG. A method of making a biocompatible, immunoisulatory implantable vehicle, consisting in a first embodiment of a coextrusion process, and in a second embodiment of a stepwise process. A method for isolating cells within a biocompatible, immunoisulatory implantable vehicle, which protects the isolated cells from attack by the immune system of an individual in whom the vehicle is implanted. A method of providing a needed biological product or metabolic function to an individual, comprising implanting into the individual an immunoisulatory vehicle containing isolated cells which produce the product or provide the metabolic function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 12 USPATFULL on STN

ACCESSION NUMBER: 2001:214673 USPATFULL

TITLE: Implantable biocompatible immunoisulatory vehicle for the delivery of selected therapeutic products

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwick, RI, United States
PATENT ASSIGNEE(S): Neurotech S.A., Evry, France (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6322804 | B1 | 20011127 |
| APPLICATION INFO.: | US 2000-563248 | | 20000502 (9) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1998-148671, filed on 4 Sep 1998, now patented, Pat. No. US 6083523 Division of Ser. No. US 1995-449837, filed on 24 May 1995, now | | |

patented, Pat. No. US 5874099 Division of Ser. No. US 179151, now patented, Pat. No. US 5800828
Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Bawa, Raj
LEGAL REPRESENTATIVE: Mintz, Levin, Cohn, Ferris, Glovsky and Pope, P.C.,
Elrifi, Ivor R., Karnakis, Christina V.
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3794

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An immunoisulatory vehicle for the implantation into an individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 5 OF 12 USPATFULL on STN

ACCESSION NUMBER: 2000:83864 USPATFULL
TITLE: Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products
INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., Greenwich, RI, United States
Gentile, Frank T., Warwick, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, Providence, RI, United States (U.S. corporation)
Brown University, Providence, RI, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6083523 | | 20000704 |
| APPLICATION INFO.: | US 1998-148671 | | 19980904 (9) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1995-449837, filed on 24 May 1995, now patented, Pat. No. US 5874099 And a continuation-in-part of Ser. No. WO 1992-US3327, filed on 22 Apr 1992 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991 | | |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Azpuru, Carlos A.
LEGAL REPRESENTATIVE: Mintz, Levin, Cohn, Ferris Glovsky and Popeo, P.C.,
Elrifi, Ivor R., Prince, John
NUMBER OF CLAIMS: 40
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 3880

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An immunoisulatory vehicle for the implantation into an

individual of cells which produce a needed product or provide a needed metabolic function. The vehicle is comprised of a core region containing isolated cells and materials sufficient to maintain the cells, and a permselective, biocompatible, peripheral region free of the isolated cells, which immunoisolates the core yet provides for the delivery of the secreted product or metabolic function to the individual.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1999:24325 USPATFULL

TITLE: Methods for making immunoisolatary implantable vehicles with a biocompatible jacket and a biocompatible matrix core

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasoohecellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwick, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5874099 | | 19990223 |
| APPLICATION INFO.: | US 1995-449837 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Elrifi, Ivor R.Mitz, Levin | | |
| NUMBER OF CLAIMS: | 28 | | |
| EXEMPLARY CLAIM: | 3 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 3879 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of forming an implantable and retrievable immunoisolatary vehicles is disclosed, the method comprising the steps of first forming a core comprising a volume of at least 1 μ l and at least 10.sup.4 cells capable of providing a biologically active product or metabolic or immunologic function, said cells being dispersed in a biocompatible hydrogel or extracellular matrix, and then forming around the core a surrounding external biocompatible thermoplastic or hydrogel jacket free of said cells projecting externally thereof, said jacket having molecular weight cutoff permitting passage of molecules to and from the core through said jacket to provide said biologically active product or function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1999:21753 USPATFULL

TITLE: Methods for treatment or prevention of neurodegenerative conditions using immunoisolatary implantable vehicles with a biocompatible jacket and a biocompatible matrix core

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
 Emerich, Dwaine F., Providence, RI, United States
 Hoffman, Diane, Cambridge, MA, United States
 Sanberg, Paul R., Spring Hill, FL, United States
 Christenson, Lisa, New Haven, CT, United States
 Hegre, Orion D., Green Valley, AZ, United States
 Scharp, David W., St. Louis, MO, United States
 Lacy, Paul E., Webster Grove, MO, United States
 Aebischer, Patrick, Lutry, Switzerland
 Vasconcellos, Alfred V., Cranston, RI, United States
 Lysaght, Michael J., E. Greenwich, RI, United States
 Gentile, Frank T., Warwick, RI, United States

PATENT ASSIGNEE(S): Brown University Research Foundation, United States
 (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5871767 | | 19990216 |
| APPLICATION INFO.: | US 1995-449062 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Ekruhu, Ivor R.Mintz, Levin | | |
| NUMBER OF CLAIMS: | 45 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 3909 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for treatment of a neurodegenerative condition in a patient comprising implanting in the patient at least one immunoisulatory vehicle comprising a core comprising a volume of at least 1 μ l and at least 10.sup.4 living cells which secrete at least one biologically active product, said cells being dispersed in a biocompatible matrix comprising a hydrogel or extracellular matrix components, and an external jacket surrounding the core, the jacket comprising a biocompatible hydrogel or thermoplastic, the jacket being free of cells projecting externally thereof, said jacket having a molecular weight cutoff permitting the passage of the biologically active product from the core through the jacket.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1999:18748 USPATFULL

TITLE: Methods for treating diabetes by delivering insulin from biocompatible cell-containing devices

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
 Emerich, Dwaine F., Providence, RI, United States
 Hoffman, Diane, Cambridge, MA, United States
 Sanberg, Paul R., Spring Hill, FL, United States
 Christenson, Lisa, New Haven, CT, United States
 Hegre, Orion D., Green Valley, AZ, United States
 Scharp, David W., St. Louis, MO, United States
 Lacy, Paul E., Webster Grove, MO, United States
 Aebischer, Patrick, Lutry, Switzerland
 Vasconcellos, Alfred V., Cranston, RI, United States
 Lysaght, Michael J., Greenwich, RI, United States
 Gentile, Frank T., Warwick, RI, United States

PATENT ASSIGNEE(S): Brown University Research Foundation, United States
 (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5869077 | | 19990209 |
| APPLICATION INFO.: | US 1995-449562 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Elrifi, Ivor R.Mintz, Levin | | |
| NUMBER OF CLAIMS: | 13 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 3813 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for treating diabetes in a patient comprising subcutaneously implanting in the patient at least one immunoisulatory vehicle comprising a core comprising a volume of at least 1 μ l and at least about 10.sup.4 living cells which secrete insulin, said cells being dispersed in a biocompatible matrix comprising a hydrogel or extracellular matrix components, and a surrounding external jacket of a biocompatible thermoplastic or hydrogel free of said cells projecting externally thereof, said jacket being permselective and immunoisulatory, said jacket having a molecular weight cutoff permitting passage of molecules between the patient and core through said jacket wherein the insulin is released from the immunoisulatory vehicle into the patient's body to treat diabetes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1998:138453 USPATFULL

TITLE: Methods for making immunoisulatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Sharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., Greenwich, RI, United States
Gentile, Frank T., Warwick, RI, United States

PATENT ASSIGNEE(S): Brown University Research Foundation, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5834001 | | 19981110 |
| APPLICATION INFO.: | US 1995-449214 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Ivor Elrifi Mintz, Levin | | |
| NUMBER OF CLAIMS: | 25 | | |
| EXEMPLARY CLAIM: | 5 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Figure(s); 9 Drawing Page(s) | | |

LINE COUNT: 3844

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of forming an implantable and retrievable immunoisulatory vehicle is disclosed, the method comprising the steps of first forming a jacket of biocompatible thermoplastic or hydrogel, and then loading the jacket with a core comprising a volume of at least 1 μ l and at least 10.sup.4 cells capable of secreting a biocompatible matrix comprising a hydrogel or extracellular matrix, said jacket having a molecular weight cutoff permitting passage of molecules thereacross to provide said biologically active product or said function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 10 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1998:104405 USPATFULL

TITLE: Methods for coextruding immunoisulatory implantable vehicles with a biocompatible jacket and a biocompatible matrix core

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwick, RI, United States

PATENT ASSIGNEE(S): Brown University Research Foundation, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5800829 | | 19980901 |
| APPLICATION INFO.: | US 1995-449274 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-693403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Elrifi, Ivor R.Mintz, Levin | | |
| NUMBER OF CLAIMS: | 27 | | |
| EXEMPLARY CLAIM: | 6 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 3898 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of making an immunoisulatory vehicle comprised of a core comprising living cells dispersed in a biocompatible matrix is disclosed, the cells being capable of secreting a biologically active product or of providing a metabolic or immunologic function to an individual, and an external jacket surrounding said core which is a biocompatible, permselective thermoplastic or hydrogel, said jacket being free of said cells, comprising coextruding a suspension comprising said cells dispersed in a precursor matrix material comprising extracellular matrix components or a biocompatible hydrogel precursor, and a solution of a biocompatible jacket precursor from a nested dual-bore extrusion nozzle, wherein the suspension of (a) is coextruded from the inner bore and the solution of (b) is coextruded from the outer bore of the nozzle, to form said jacket as the solution of (b) and the suspension of (a) are coextruded; and exposing the vehicle to a treatment that forms a core comprising a volume of at least 1 μ l and

at least 10.sup.4 cells and comprising a biocompatible matrix from the precursor matrix of solution (a).

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1998:104404 USPATFULL

TITLE: Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland
Vasconcellos, Alfred V., Cranston, RI, United States
Lysaght, Michael J., E. Greenwich, RI, United States
Gentile, Frank T., Warwick, RI, United States
PATENT ASSIGNEE(S): Brown University Research Foundation, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5800828 | | 19980901 |
| APPLICATION INFO.: | US 1994-179151 | | 19940110 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Elrifi, Ivor R.Mintz, Levin | | |
| NUMBER OF CLAIMS: | 43 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 15 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 3914 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Immunoisulatory vehicles having a core and a surrounding jacket are disclosed, the core having a volume in excess of 1 μ l and at least about 10.sup.4 living cells capable of secreting a biologically active product or of providing a biological function to a patient, the cells dispersed in a biocompatible matrix formed of a hydrogel or an extracellular matrix component, and the external jacket being permselective, biocompatible and having a molecular weight cutoff permitting passage of molecules between the patient and the core through said jacket to provide said biological product or function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 12 USPATFULL on STN

ACCESSION NUMBER: 1998:101409 USPATFULL

TITLE: Implantable biocompatible immunoisulatory vehicle for delivery of selected therapeutic products

INVENTOR(S): Dionne, Keith E., Rehoboth, MA, United States
Emerich, Dwaine F., Providence, RI, United States
Hoffman, Diane, Cambridge, MA, United States
Sanberg, Paul R., Spring Hill, FL, United States
Christenson, Lisa, New Haven, CT, United States
Hegre, Orion D., Green Valley, AZ, United States
Scharp, David W., St. Louis, MO, United States
Lacy, Paul E., Webster Grove, MO, United States
Aebischer, Patrick, Lutry, Switzerland

PATENT ASSIGNEE(S): Vasoocellos, Alfred V., Cranston, RI, United States
 Lysaght, Michael J., Greenwich, RI, United States
 Gentile, Frank T., Warwick, RI, United States
 Brown University Research Foundation, United States
 (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 5798113 | | 19980825 |
| APPLICATION INFO.: | US 1995-449524 | | 19950524 (8) |
| RELATED APPLN. INFO.: | Division of Ser. No. US 1994-179151, filed on 10 Jan 1994 which is a continuation-in-part of Ser. No. US 1991-692403, filed on 25 Apr 1991, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Bawa, Raj | | |
| LEGAL REPRESENTATIVE: | Elrifi, Ivor R., Levin, Mintz | | |
| NUMBER OF CLAIMS: | 33 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 12 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 3901 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of providing a biologically active molecule or metabolic or immunologic function to a patient, comprising implanting into the body of the patient at least one immunoisulatory vehicle comprising a core comprising a volume in excess of 1 μ l and at least about 10^{sup}.4 living cells dispersed in a biocompatible matrix formed of a hydrogel or extracellular matrix components, said cells being capable of secreting a biologically active product or of providing a metabolic or immunologic function to the patient; and an external jacket surrounding said core, said jacket being formed from a thermoplastic or hydrogel, said jacket being free of said cells projecting externally therefrom, said jacket being biocompatible and having a molecular weight cutoff permitting passage of molecules between the patient and the core through said jacket to provide said biologically active product of function.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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